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## Soviet Microwave Work Cited

By Barton Reppert  
Associated Press

A Defense Intelligence Agency report says extensive Soviet research into microwaves might lead to methods for causing disoriented human behavior, nerve disorders or even heart attacks.

"Soviet scientists are fully aware of the biological effects of low-level microwave radiation which might have offensive weapons application," says the report, based on an analysis of experiments conducted in the Soviet Union and Eastern Europe.

This research work suggests "the potential for the development of a number of antipersonnel applications," the study says.

Microwave beams are the electronic basis of radar and are used for relaying long-distance telephone calls. Other common sources of microwaves include television transmitters.

A copy of the study was provided by DIA to The Associated Press in response to a request under the Freedom of Information Act. The agency refused to release some portions of the study, saying they remain classified.

According to the Pentagon analysis,

Soviet researchers have found that persons exposed to low-level microwave radiation "experience more neurological, cardiovascular and hemodynamic (blood circulation) disturbances than do their unexposed counterparts."

It said persons exposed to microwaves tend to complain more frequently of subjective conditions including "headache, fatigue, perspiring, dizziness, menstrual disorders, irritability, agitation, tension, drowsiness, sleeplessness, depression, anxiety, forgetfulness and lack of concentration."

The report made no direct mention of the Soviet microwave bombardment of the U.S. embassy in Moscow, where, despite strong American protests, the radiation continues, though at reduced levels.

State Department spokesmen insist that medical tests of embassy personnel have found no adverse health effects attributable to the microwaves.

The Soviets have denied beaming any radiation at the embassy.

The DIA report, distributed within the government last March, said that one biological effect that could offer antipersonnel uses is the phenomenon known as "microwave hearing."

"Sounds and possibly even words which appear to be originating intracranially [within the head] can be induced by signal modulation at very low average power densities," the study said. It added that "combinations of frequencies and other signal characteristics to produce other neurological effects may be feasible in several years."

The report concluded that Soviet research in this area "has great potential for development into a system for disorienting or disrupting the behavior patterns of military or diplomatic personnel; it could be used equally as well as an interrogation tool."

The report said that, along with microwave hearing, the Soviets also have studied various changes in body chemistry and brain function resulting from exposure to microwaves and other frequencies of electromagnetic radiation.

"One physiological effect which has been demonstrated is heart seizure," the report said.

It said that this has been accomplished experimentally in frogs by synchronizing the pulses of a microwave signal with the animal's heartbeat and beaming the radiation at the chest area.

## U.S. Labor Party, GOP Join Forces in 47 State Challenges

**Child's Exorcism Death**  
YAKIMA, Wash.—The mother of 3-year-old David Weilbacher and two other defendants were found guilty of first-degree manslaughter in the toddler's exorcism torture death.

Two others were found guilty of second-degree manslaughter and all five pronounced guilty of second-degree assault.

The mother, Debra Weilbacher, and son Cunningham and Carolyn Cunningham were charged with the

**Athens court sentences newsman**  
Greek *Seizure Monitor* Athens

A Greek-American journalist was sentenced to 15 months imprisonment in his absence Monday for claiming that an Athens English-language newspaper was on the payroll of the Russian intelligence service, the KGB.

A lawyer told an Athens civil court that Takis Theodoropoulos, a correspondent for William F. Buckley's conservative National Review magazine was in

**soned Grains Tied to Bird Deaths**

AN LUIS OBISPO, Calif. — California Polytechnic University officials admitted yesterday they were responsible for the deaths of about 500 birds and pigeons who probably fed on poisoned grain.

An announcement from the university said 70 birds of grain were treated with a chemical that had been injected into the birds' feeders. The birds were found dead from eating the feeders meant for dairy cattle. It was not planned apparently that the grain would be fatal. The grain was poisoned in an effort to prevent an infestation of birds around dairy feed bins on campus.

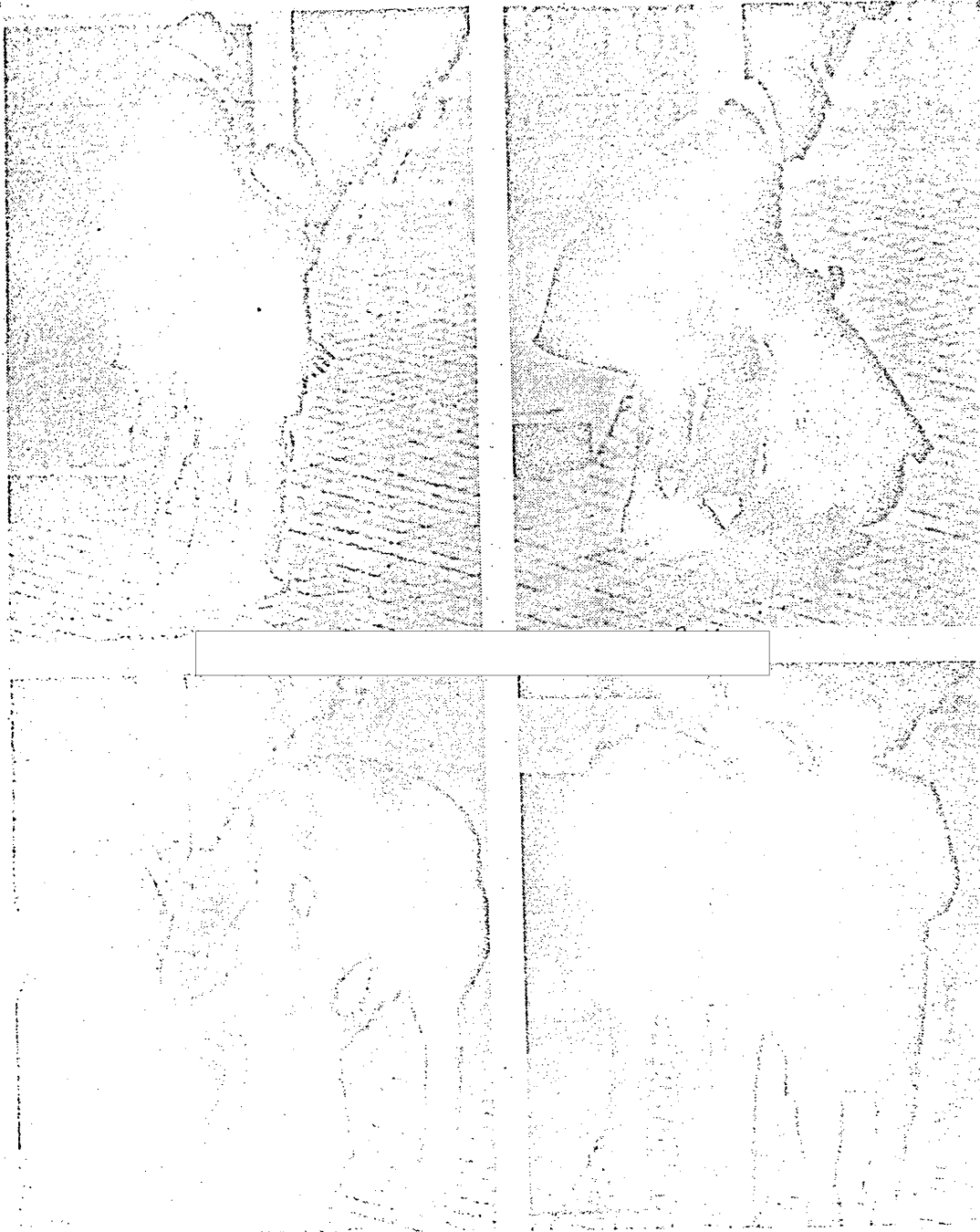
**Irish appeal canceled**

The two founders of the Northern Ireland Women's Peace Movement, Betty Williams and Mairead Corrigan, recorded a television interview in New Orleans that was to have been taped in Buffalo, N.Y., but was called off because of threats against a sister, *Don't there*. They are urging that Americans not send money "to the vicious circle of violence" in Northern Ireland.

Effects of PBB poisoning of this cow in Michigan include wrinkled skin, humped back, overgrown hoofs and a damaged udder.

**1,100 Tested in Michigan for Effects**

Wash. Post Nov. 21, 76



ILLNESS AT RITE GRAVESITE—Maxwell Kennedy, 11, son of the late Sen. Robert F. Kennedy, falls and is helped to his feet after becoming ill during family's observance of the slain senator's 51st birthday anniversary early yesterday at Arlington National Cemetery. Kennedy's

daughter Rory, 7, also became faint during ceremony, in which family members placed yellow roses on grave and knelt while senator's widow, Ethel Kennedy, said rosary. Other family members present were sons Christopher, 13, and Douglas, 10, and brother-in-law Sargent Shriver.

Associated Press

THE NEW YORK TIMES, SATURDAY, OCTOBER 23, 1976

## Radio Signal, Apparently Soviet, Is Said to Disrupt Communications

WASHINGTON, Oct. 29 — A very powerful, mysterious radio signal, apparently emanating from the Soviet Union, has been disrupting communications throughout the world for months, sources on both sides of the Atlantic say.

The interference caused by the transmissions is reported to be so severe that it has disrupted maritime, aeronautical, telecommunications and amateur radio operations to the point where certain channels have become virtually useless. Since Aug. 25, the Federal Communications Commission has written four complaints to the Ministry of Posts and Telecommunications in Moscow, but so far has not had an answer, the sources said. The commission has several hundred complaints.

### Several Unanswered Questions

Precisely what is generating the signals, what type of intelligence—if any—they are carrying out and what their purpose is are all unanswered questions.

Colin Thomas, who is worldwide coordinator of interference reports for the International Amateur Radio Union, said in a telephone interview from his home in Leeds, England, that reports of interference from these transmissions have come from amateurs in Sweden, Norway, West Germany, the United States and Australia.

"The source of the problem lies in the U.S.S.R.," Mr. Thomas said. "There are thought to be three transmitters involved, but the purpose of the transmissions, this we do not know."

Mr. Thomas said that all of his interference reports were sent to the British Home Office, and that he understood that

complaints had been telegraphed to the Russians. But, as with the F.C.C. complaints, there has been no answer.

So severe has the interference become—and so unresponsive have the Russians been to complaints from other countries—that the matter has been referred to the International Telecommunications Union in Geneva.

Rene Fontaine, official spokesman for the telecommunications union, said he was unaware of the entire matter but added that the organization would not make public anything it might be doing. He said, too, that the union had no power to enforce international radio treaties against interference, but simply tried to mediate such matters.

Nevertheless, another I.T.U. source said that the organization did have a file on the mysterious transmissions. He said correspondence had passed to the Russians through the I.T.U.'s International Frequency Regulation Board in connection with the matter.

### Almost Daily Since July

King T. Hall, chief watch officer at the F.C.C.'s monitoring branch, said the commission had been getting complaints almost daily since early July. He said complaints had come from basically every shortwave radio user: aviation people for air-ground communications, maritime users—ship-to-ship and ship-to-shore operators as well as shore-to-ship and ship-to-ship—overseas point-to-point fixed radio services, such as those of the American Telephone and Telegraph Company, the International Telephone and Telegraph Corporation and RCA Global Communications, Inc. Although officials of all three

companies said they knew nothing about such interference, a watch officer at the RCA ship-shore station in Chatham, Mass., said last night that over the last week or so several channels were completely unusable because of the interference. At the A.T.&T. station at Manahawkin, N.J., an operator said the interference had been bothersome for some time, although he was uncertain of its source.

The primary source of complaints, Mr. Hall said, appears to be amateur radio operators, because there are more of them than there are commercial operators. Mr. Hall said direction-finding equipment

had confirmed that the signals emanated from the eastern side of the Baltic Sea. Although at such distances radio direction finders are not precise, another F.C.C. official said the transmissions might be coming from the area around Minsk, the capital of Byelorussia and about 300 miles southeast of the Baltic.

In technical terms, the interference is being caused by an extremely wide band signal that pulses to three times a second. If such transmissions were heard on ordinary broadcast frequencies (which they are not) with the same effect as on the shortwave frequencies, they would blot out about a fifth of the entire broadcast band at one time.

Wash. Post Nov. 15, 76  
Maryland-Virginia Briefs

## Hypnosis Is Used to Jog Witnesses in Slaying Case

PIKESVILLE, Md. (UPI)—Authorities used hypnosis to develop a description of a man who may have killed Peggy Ellen Pumpian last August, State Police spokesman Bill Clark said Wednesday.

Clark said six persons who saw Miss Pumpian shortly before she died have undergone hypnosis to jog their memories of events surrounding the slaying.

"In this coming week, we should have a complete sketch of a white male who was very possibly the last one to see the woman alive and very possibly the one who did the murder," Clark said.

Miss Pumpian's body was found along I-65 slumped on the passenger seat of her car. She had been strangled, shot five times, sexually assaulted and mutilated.

Miss Pumpian's father, Benton